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Amendments to the Claims

Please cancel claims 2, 4, 5, 8-11, 19, 30-34 and 37-38 without prejudice. Please amend claims

20, 29 and 35 as follows. Please add new claims 42 and 43.

1-12. (Canceled)

13. (Previously amended) A method of magnetically manipulating a chemical or biological

agent, comprising:

magnetically drawing a magnetically recruitable first article to a first location, the first

article comprising a magnetic bead, a first chemical or biological agent being fastened to the first

article, a binding partner of the first agent being linked to the first agent, a nanoparticle being

linked to the binding partner, and the first article being immobilized relative to a signaling entity

that is immobilized relative to the binding partner;

magnetically drawing a second article comprising a magnetic bead carrying a second

chemical or biological agent immobilized relative to the second article, to a second location; and

selectively magnetically releasing the second article from the second location while

holding the first article at the first location.

14. (Previously amended) A method as in claim 13, wherein the signaling entity is the

nanoparticle.

15. (Previously amended) A method as in claim 13, wherein the nanoparticle includes an

auxiliary signaling entity immobilized relative thereto.

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16. (Previously amended) A method as in claim 15, wherein the signaling entity is a

metallocene fastened to the nanoparticle.

17. (Original) A method as in claim 16, wherein each of the predetermined surface areas

comprises an electrode, and an electromagnet is associated with each of the first and second

predetermined surface areas, positioned to draw the first or second article to the first or second

predetermined surface area, respectively.

18. (Original) A method as in claim 16, wherein the metallocene is ferrocene.

19. (Canceled)

20. (Currently amended) A method as in claim 18, wherein each of the first and or second

agents is a candidate drug.

21. (Original) A method as in claim 18, wherein the drawing step is carried out in the presence

of a candidate drug, and each of the first and the second agents is a potential target of the

candidate drug.

22. (Previously amended) A method of magnetically manipulating a chemical or biological

agent comprising:

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providing a plurality of magnetic beads each carrying a chemical or biological agent immobilized relative thereto;

exposing the beads to a plurality of nanoparticles each carrying a potential binding partner of the chemical or biological agents;

allowing some of the nanoparticles to bind to some of the magnetic beads via chemical or biological agent/binding partner interaction while leaving some of the magnetic beads free of linkage to nanoparticles;

magnetically drawing the magnetic beads to a plurality of predetermined locations at a surface;

determining first surface locations at which nanoparticles have been drawn and second surface locations substantially free of nanoparticles; and

selectively magnetically releasing magnetic beads from the second surface locations while holding magnetic beads at the first surface locations.

23. (Original) A method as in claim 22, further comprising removing magnetic particles released from the vicinity of the second surface locations; and

repeating one or more times the steps of magnetically drawing, determining, and releasing.

24. (Original) A method as in claim 22, further comprising:

removing magnetic particles released from the vicinity of the first and second surface locations;

releasing magnetic beads from the first surface locations; and

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repeating one or more times the steps of magnetically drawing; determining, and releasing.

- 25. (Original) A method as in claim 24, further comprising, prior to the repeating step: adding fluid to dilute particles released from the first surface locations.
- 26. (Previously amended) A method as in claim 23, comprising detecting the presence of nanoparticles at surface locations visually.
- 27. (Previously amended) A method as in claim 23, comprising detecting the presence of nanoparticles at surface locations by electromagnetically stimulating a metallocene linked to the nanoparticles.
- 28. (Previously amended) A method as in claim 22, comprising detecting the presence of nanoparticles at surface locations by electromagnetically stimulating a metallocene linked to the nanoparticles.
- 29. (Currently amended) A method as in claim 24, further comprising identifying at least one first chemical or biological agent.
- 30-34. (Canceled).

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35. (Currently amended) A method as in claim 13, wherein the first article further comprises

a DNA sequence immobilized thereto which identifies the first agent, the method further

comprising identifying the first agent by identifying the DNA sequence.

36. (Previously presented) A method as in claim 35, comprising first selectively magnetically

releasing the second article from the second location while holding the first article at the first

location, and then identifying the first agent by identifying the DNA sequence.

37 - 38. (Canceled)

39. (Previously presented) A method as in claim 38, wherein the binding partner and DNA

sequence are each immobilized relative to a common nanoparticle.

40. (Previously presented) A method as in claim 22, further comprising providing at least one

magnetic bead held at a first surface location according to the method, and identifying at least

one chemical or biological agent carried by the at least one magnetic bead by identifying a DNA

sequence immobilized relative to the magnetic bead.

41. (Previously presented) A method as in claim 22, further comprising providing at least one

magnetic bead held at a first surface location according to the method, the magnetic bead

immobilized relative to a nanoparticle, and identifying at least one binding partner of the

chemical or biological agent carried by the at least one magnetic bead by identifying a DNA

sequence immobilized relative to the nanoparticle.

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42. (New) A method of magnetically manipulating a chemical or biological agent

comprising:

magnetically drawing a magnetically recruitable first article and a first chemical or

biological agent immobilized relative to the first article to a first location and magnetically

drawing a second article to a second location, wherein the first and second locations are first and

second predetermined areas of a surface, respectively; and

selectively magnetically releasing the second article from the second location while

holding the first article at the first location,

wherein the first agent is linked to a binding partner thereof and each of the first and

second predetermined surface areas comprises an electrode,

wherein the first article comprises a magnetic bead, and a nanoparticle is linked to the

binding partner, and the second article comprises a magnetic bead carrying a second chemical or

biological agent immobilized relative thereto.

43. (New) A method of magnetically manipulating a chemical or biological agent

comprising:

magnetically drawing a magnetically recruitable first article and a first chemical or

biological agent immobilized relative to the first article to a first location and magnetically

drawing a second article to a second location, wherein the first and second locations are first and

second predetermined areas of a surface, respectively; and

selectively magnetically releasing the second article from the second location while

holding the first article at the first location,

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wherein the first agent is linked to a binding partner thereof and each of the first and second predetermined surface areas comprises an electrode,

further comprising allowing the first chemical or biological agent to bind to a binding partner thereof, the binding partner immobilized relative to a DNA sequence identifying the binding partner, wherein the binding partner and DNA sequence are each immobilized relative to a common nanoparticle; and

identifying the binding partner by identifying the DNA sequence.